

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mohammed N. Islam, et al.
Filing Date: August 27, 2003
Title: VARIABLE GLAZED GRATING

MAIL STOP PATENT APPLICATION

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Applicants respectfully request, pursuant to 37 C.F.R. §§1.56, 1.97, and 1.98, that the documents listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified application. Furthermore, pursuant to 37 C.F.R. §§1.97(g) and (h), Applicants make no representation that these documents qualify as prior art or that these documents are material to patentability of the present application or that a search has been made.

The present Information Disclosure Statement is being filed in a continuation application of U.S. Serial No. 10/192,248, filed July 9, 2002. Each document listed on the attached PTO Form 1449 was cited by or submitted to the U.S. Patent and Trademark Office in the prior application as properly identified above. Therefore, pursuant to 37 C.F.R. § 1.98(d), a copy of each listed document need not be provided with the present Information Disclosure Statement.


ATTORNEY DOCKET NO.:
074036.0127

PATENT APPLICATION

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No fee is believed due, pursuant to 37 C.F.R. § 1.97; however, the Commissioner is hereby authorized to charge any fees or credit any overpayment to Deposit Account No. 02-384 of Baker Botts L.L.P.

Respectfully submitted,
Baker Botts L.L.P.

A handwritten signature in black ink, appearing to read 'Kevin J. Meek', with a stylized flourish extending to the right.

Kevin J. Meek
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Date: August 27, 2003

PTO-1449	Application No.	Applicant(s)	
	Docket Number	Mohammed N. Islam et al.	
		Group Art Unit	Filing Date
Information Disclosure Citation in an Application	074036.0127	August 27, 2003	

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	4,011,009	03/08/77	Lama, et al.	350	162 R	05/27/75
	B	4,736,132	04/05/1988	Culp	310	328	09/14/1987
	C	4,856,863	8/15/1989	Sampsell et al.	250	227.26	06/22/1988
	D	4,900,119	02/13/90	Hill, et al.	350	96.15	04/01/1988
	E	5,078,479	01/07/1992	Vuilleumier	359	290	04/18/1991
	F	5,212,743	05/18/93	Heismann	385	11	02/12/92
	G	5,311,360	05/10/94	Bloom, et al.	359	572	04/28/92
	H	5,392,151	02/21/1995	Nelson	359	223	06/28/1994
	I	5,459,610	10/17/95	Bloom, et al.	359	572	05/20/93
	J	5,500,761	03/19/96	Goossen, et al.	359	290	01/27/94
	K	5,654,819	08/05/97	Goossen, et al.	359	291	01/07/95
	L	5,659,418	08/19/97	Yurke	359	290	02/05/96
	M	5,684,631	11/04/1997	Greywall	359	565	05/13/1996
	N	5,661,592	08/26/1997	Bornstein, et al.	359	291	01/07/95
	O	5,696,619	12/19/1997	Knipe et al.	359	224	02/27/1995

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	P	GB 2 071 896 A	09/1981	Great Britain			X	
	Q	WO 01/37021 A1	14.11.2000	PCT	G02B	6/42	X	
	R	WO 01/79795 A1	22.03.2001	PCT	G01J	3/28	X	

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	S	K. E. Petersen, "Micromechanical Light Modulator Array Fabricated On Silicon," Applied Physics Letters, Vol. 31, No. 8, pp. 521-523	10/15/77
	T	C. Marxer, et al., "Megahertz Opto-Mechanical Modulator," Elsevier Science S.A., pp. 46-50	1996
	U	C. M. Ragdale, et al., "Integrated Three Channel Laser and Optical Multiplexer for Narrowband Wavelength Division Multiplexing," Electronics Letters, Vol. 30, No. 11, pp. 897-898	05/26/94
	V	K. O. Hill, et al., "Narrow-Bandwidth Optical Waveguide Transmission Filters," Electronic Letters, Vol. 23, No. 9, pp. 465-466	04/23/87

EXAMINER

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U.S. Patent and Trademark Office

DAL01:752873

PTO-1449 Information Disclosure Citation in an Application	Application No.	Applicant(s) Mohammed N. Islam et al.	
	Docket Number 074036.0127	Group Art Unit	Filing Dat August 27, 2003

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	5,701,193	12/23/97	Vogel, et al.	359	290	02/21/96
	B	5,745,271	04/28/98	Ford, et al.	359	130	07/31/96
	C	5,751,469	05/12/1998	Arney, et al.	359	291	02/01/96
	D	5,825,528	10/20/1998	Goossen	359	291	12/26/95
	E	5,835,255	11/10/1998	Miles	359	291	05/05/94
	F	5,841,579	11/24/1998	Bloom, et al.	359	572	06/07/95
	G	5,847,859	12/08/1998	Murata	235	462.35	03/19/1996
	H	5,850,492	12/15/1998	Morasca, et al.	385	11	11/06/96
	I	5,870,221	02/09/1999	Goossen	359	290	07/25/97
	J	5,914,804	06/22/1999	Goossen	359	291	01/28/98
	K	5,943,155	08/24/1999	Goossen	359	247	08/12/98
	L	5,943,158	08/24/1999	Ford, et al.	359	295	05/05/98
	M	5,943,454	08/24/1999	Aksyuk, et al.	385	22	08/15/97
	N	5,949,571	09/07/1999	Goossen, et al.	359	291	07/30/98

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	O	WO 02/056521 A1	02.11.2001	PCT	H04J	14/00	X	
	P	WO 02/059655 A2	20.12.2001	PCT	G02B		X	
	Q	WO 02/06860 A1	11.07.2001	PCT	G02B	5/18	X	
	R	WO 02/10822 A1	31.07.2001	PCT	G02B	6/34	X	

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	S	C. M. Ragdale, et al., "Integrated Laser and Add-Drop Optical Multiplexer for Narrowband Wavelength Division Multiplexing," Electronic Letters, Vol. 28, No.89, pp. 712-714	04/09/92
	T	K. Aratani, et al., "Process and Design Considerations for Surface Micromachined Beams for A Tuneable Interferometer Array in Silicon," Handbook of Physics, pp. 230-235	1993
	U	O. Solgaard, et al., "Deformable Grating Optical Modulator," Optics Letters, Vol. 17, No. 9, pp. 688-690	05/01/92
	V	W. R. Wiszniewski, et al., "Mechanical Light Modulator Fabricated On A Silicon Chip Using Simox Technology, pp. 1027-1030	Undated

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	Docket Number 074036.0127	Group Art Unit	Filing Date August 27, 2003

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	5,960,133	09/28/1999	Tomlinson	385	18	01/27/98
	B	5,974,207	10/26/1999	Aksyuk, et al.	385	24	12/23/97
	C	5,986,796	11/16/1999	Miles	359	260	11/05/1996
	D	5,999,306	12/07/1999	Atobe et al.	359	295	11/26/1996
	E	6,002,513	12/14/1999	Goossen, et al.	359	291	06/22/1998
	F	6,046,840	04/04/2000	Huibers	359	291	09/24/1998
	G	6,061,166	05/09/2000	Furlani et al.	359	224	10/15/1998
	H	6,091,867	07/18/2000	Young et al.	349	197	04/30/1999
	I	6,137,941	10/24/2000	Robinson	385	140	09/03/1998
	J	6,172,796	01/09/2001	Kowarz et al.	359	224	12/18/1998
	K	6,204,946 B1	03/20/2001	Aksyuk et al.	359	131	11/12/1997
	L	6,212,309 B1	04/03/2001	Nguyen et al.	385	17	01/21/1999
	M	6,268,952 B1	07/31/2001	Godil et al.	359	247	07/14/1999

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	N	WO 02/21191 A1	07.09.2001	PCT	G02B	27/10	X	
	O	WO 02/50588 A1	20.12.2001	PCT	G02B	6/26	X	

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		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	P	M.W. Chbat, "High-spectral-efficiency transmission systems," OFC 2000, Baltimore, MD, pp TuJ1-1, 134-136	2000
	Q	J.W. Bayless, et al., "The Specification and Design of Bandlimited Digital Radio Systems," IEEE Transactions on Communications, Vol. COM-27 (12): pp. 1763-1770	1979
	R	D.E. Sene, et al., "Polysilicon Micromechanical Gratings for Optical Modulation," Elsevier Vol. Sensors and Actuators (A 57), pp. 145-151	1996
	S	D.M. Burns, et al., "Micro-Electro-Mechanical Variable Blaze Gratings," IEEE 10th Annual International Workshop on Micro Mechanical Systems, pp. 385-391	1997
	T	L.Y. Lin, et al., "Micromachined polarization-state controller and its application to polarization-mode dispersion compensation," OFC 2000, Baltimore, MD, pp. ThQ3-1, 244-246	2000
	U	J.W. Bayless, et al., "High Density Digital Data Transmission," National Telecommunications Conference, Dallas, TX, pp. 1-6	1976

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PTO-1449			Application No.		Applicant(s)		
Information Disclosure Citation in an Application			Docket Number		Mohammed N. Islam et al.		
			074036.0127		Filing Date August 27, 2003		
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	2002/0044722 A1	04/18/2002	Tew	385	18	09/28i/2001
	B	6,381,387 B1	04/30/2002	Wendland, Jr.	385	37	08/02/2000
	C	6,411,502 B1	06/25/2002	Kannan Raj	359	291	09/18/2000
	D	2002/0081070 A1	06/27/2002	Tew	385	39	11/13/2001
	E	2002/0105697 A1	08/08/2002	Fabiny	359	128	02/12/2002
	F	6,439,728 B1	08/27/2002	Copeland	359	515	08/28/2001
	G	6,445,502 B1	09/03/2002	Islam et al.	359	571	02/02/2001
	H	6,483,962 B1	11/19/2002	Novotny	385	18	05/24/2001
	I	6,522,800 B2	02/18/2003	Lucero	385	16	12/21/2000
	J	6,525,860 B1	02/25/2003	Holz et al.	359	251	05/25/2000
	K	6,538,816 B2	03/25/2003	Fuchs et al.	359	578	12/18/2000
	L	6,580,849 B2	06/17/2003	Chen et al.	385	18	01/05/2001
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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	M						YES NO
	N						
	O						
NON-PATENT DOCUMENTS							
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	P	R.W. Corrigan, et al., "17.3: Calibration of a Scanned Linear Grating Light Value™ Projection System," www.siliconlight.com					1999
	Q	SLM "GLV Technology," www.siliconlight.com					1999
	R	R.W. Corrigan, et al., "Grating Light Valve Technology for Projection Displays," Presented at the International Display Workshop, Kobe, Japan					1998
	S	M. Ming, et al., "Principles and Applications of Optical Communications," Irwin, pp. 468 & 470					1996
	T	SLM "The Grating Light Valve Technology," www.siliconlight.com					1999
	U	SLM "The Scanned Grating Light Valve Display Architecture," www.siliconlight.com					1999
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							YES NO
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NON-PATENT DOCUMENTS							
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	G	A. Willner, "WDM Systems 1," OFC '97, Dallas, TX, pp. TuJ, 43-45					1997
	H	C. Pu, et al., "Michromachined Integrated Optical Polarization-State Rotator," IEEE Photonics Technology Letters, Vol. 12 (10), pp. 1358-1360					10/2000
	I	D.T. Amm, et al., "5.2: Grating Light Valve™ Technology: Update and Novel Applications," Presented at Society for Information Display Symposium, Anaheim, CA, pp. 1-4					05/1998
	J	D.M. Bloom, "The Grating Light Valve: revolutionizing display technology," www.siliconlight.com					1998
	K	D.T. Amm, et al., "Optical Performance of the Grating Light Valve Technology," Presented at Photonics West-Electronic Imaging, Sunnyvale, CA, pp. 1-8					1999
	L	J.E. Ford, et al., "Fiber-Coupled Variable Attenuator Using a MARS Modulator," SPIE, Vol. 3226, pp. 86-96					1997
	M	D.M. Burns, et al., "Development of Michromechanical Variable Blaze Gratings," Elsevier Science S.A., vol. Sensors and Actuators, pp. 7-15					1998
	N	C.K. Madsen, et al., "A Tunable Dispersion Compensating MEMS All-Pass Filter," IEEE Photonics Technology Letters, Vol. 12 (6), pp. 651-653					2000
	O	J.E. Ford, et al., "Passband-Free Dynamic WDM Equalization," ECOC '98, Madrid, Spain, pp. 317-318					1998
	P	K.W. Goossen, et al., "Micromechanical Gain Slope Compensator for Spectrally Linear Optical Power Equalization					2000
	Q	K.W. Goossen, et al., "Silicon Modulator Based on Mechanically-Active Anti-Reflection Layer with 1 Mbit/sec Capability for Fiber-in-the-Loop Applications," IEEE Photonics Technology Letters, Vol. 6 (9), pp. 1119-1121					1994
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	F						YES NO
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NON-PATENT DOCUMENTS							
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	H	L.Y. Lin, et al., "Angular-Precision Enhancement in Free-Space Micromachined Optical Switches," IEEE Photonics Technology Letters, Vol. 11 (10), pp. 1253-1255					1999
	I	L.Y. Lin, et al., "Free-Space Micromachined Optical Switches with Submillisecond Switching Time for Large-Scale Optical Crossconnects," IEEE Photonics Technology Letters, Vol. 10 (4), pp. 525-527					1998
	J	L.Y. Lin, et al., "Optical Crossconnects for High-capacity Lightwave Networks," Journal of High Speed Networks, pp. 17-34					1999
	K	E.P. Furlani, et al., "Analysis of grating light valves with partial surface electrodes," American Institute of Physics, Vol. 83 (2), pp. 629-634					1998
	L	E.P. Furlani, et al., "Theory and simulation of viscous damped reflection phase gratings," J. Phys. D: Appl. Phys., Vol. 32, pp. 412-416					1999
	M	K. Aratani, et al., "Surface micromachined tuneable interferometer array," Sensors and Actuators, Vol. 43, pp. 17-23					1994
	N	R.T. Howe, et al., "Polycrystalline Silicon Micromechanical Beams," Journal Electrochemical Society, Vol. 130 (6), pp. 1420-1423					1983
	O	S.R. Mallinson, "Wavelength-selective filters for single-mode fiber WDM systems using Fabry-Perot interferometers," Applied Optics, Vol. 26 (3), pp. 430-436					1987
	P	L.Y. Lin, et al., "Micromachined Polarization-state-controller and its Application to Polarization-mode Dispersion-compensation," OFC 2000, Baltimore, MD, pp. ThQ3-1, 144-246					2000
	Q	L. Y. Lin, et al., "Optical-layer Networking: Opportunities for and Progress in Lightwave Micromachines," OFC 2000, Baltimore, MD, pp. 1-88					2000
	R	Author Unknown, "Diffraction and Interference," Optics, Chapter 6, pp. 102-103					Unknown
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	R	"Polarization Mode Dispersion (PMD)," Cables & Components Technical Papers, http://www.usa.alcatel.com/cc/techprs/fnlpmd2.htm					2000
	S	"Menyuk Tutorial," OFC 2000, pp. 92-94					03/2000
	T	D.M. Burns, et al., "Designs to improve polysilicon micromirror surface topology," SPIE Vol. 3008, pp. 100-110					1997
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Respectfully submitted,
BAKER BOTTS L.L.P.



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Attorneys for Applicants

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	O							

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	P	N. Choksi, et al., "Maskless extreme ultraviolet lithography," J. Vac. Sci. Technol. B 17(6) (© 1999 American Vacuum Society), pp. 3047-3051	Nov/Dec 1999
	Q	Y. Shroff, et al., "Fabrication of parallel-plate nanomirror arrays for extreme ultraviolet maskless lithography," J. Vac. Sci. Technol. B 19(6) (© 2001 American Vacuum Society), pp. 2412--2415	Nov/Dec 2001
	R	Y. Chen, et al., "Modeling and Control of Nanomirrors for EUV Maskless Lithography," white paper, EECS Department, University of California,	Unknown
	S	U. Ljungblad, et al., "New laser pattern generator for DUV using a spatial light modulator," Microelectronic Engineering, Elsevier Science B.V., pps. 23-29	2001
	T	S. Singh-Gasson, et al., "Maskless fabrication of light-directed oligonucleotide microarrays using a digital micromirror array," Nature Biotechnology Vol. 17, pp. 974-978	10/17/1999
	U	H. Shin, "Micromirror and its Applications," MEMS Laboratory, Samsung Advanced Institute of Technology, slide presentation, 16 pgs.	04/19/2002

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